

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

GERALD BERGER

PHO 98-520A

SERIAL NO.:

GROUP ART UNIT:

FILED: CONCURRENTLY

EXAMINER:

RECORDING ARRANGEMENT HAVING KEY WORD DETECTION MEANS

Commissioner for Patents  
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT

Prior to calculating the filing fee and examination,  
please amend the above-identified application as follows:

IN THE SPECIFICATION

Enclosed herewith is a Substitute Specification.

IN THE CLAIMS

Please cancel claims 3 and 4, and amend the claims as  
follows:

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1. (Amended) A recording arrangement comprising:

receiving means for receiving a television signal and an  
information signal in which television program information;

recording means for recording a processed received  
5 television signal of a television program; and

selection means for selecting at least one television  
program having title information contained in the television  
program information, said title information comprising at least one  
given keyword,

10 characterized in that said recording arrangement further comprises:

keyword detection means for detecting, as a detected  
keyword, at least one item of title fragment information of title  
information of a television program recorded by the recording means  
as a processed received television signal, said keyword detection  
5 means providing said at least one detected keyword to the selection  
means as said at least one given keyword.

2. (Amended) The recording arrangement as claimed in Claim 1,  
characterized in that said recording arrangement further comprises  
a keyword memory for storing said at least one keyword detected by  
the keyword detection means.

5. (Amended) The recording arrangement as claimed in Claim 1, characterized in that said recording arrangement further comprises a television program memory for storing television program information derived from a received information signal.

6. (Amended) The recording arrangement as claimed in Claim 1, characterized in that said recording arrangement further comprises:

display signal generating means, said display signal generating means being manually activatable for generating a display signal representing television program information of selected television programs;

output means for applying the display signal to display means capable of displaying a list of recording suggestions containing television program information of at least one selected television program; and

recording programming means for manually marking the television program information of one of the selected and displayed television programs, whereby the recording arrangement is programmable to record the marked television program.

7. (Amended) The recording arrangement as claimed in Claim 1, characterized in that the keyword detection means detects as keywords only title fragment information having a minimum number of characters.

8. (Amended) The recording arrangement as claimed in Claim 1, characterized in that said recording arrangement further comprises an exclusion memory for storing at least title fragment information which is to be excluded as a keyword by the keyword detection

5 means.

9. (Amended) The recording arrangement as claimed in Claim 1, characterized in that the recording means automatically records a television program selected by the selection means.

10. (Amended) The recording arrangement as claimed in Claim 1, characterized in that the receiving means is capable of receiving an information signal from a computer data network.

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REMARKS

Enclosed herewith is a Substitute Specification in which the specification as filed has been amended to correct typographical and grammatical errors, and also to add section headings.

In support of the above, enclosed herewith is a copy of the specification as filed marked up with the above changes.

The undersigned attorney asserts that no new matter has been incorporated into the Substitute Specification.

Claims 3 and 4 have been cancelled, while claims 1, 2 and 5-10 have been amended for clarity.

In the parent patent application, in the Office Action mailed December 5, 2001, the Examiner had finally rejected claims 1, 2, 5, 6, 9 and 10 under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,061,056 to Menard et al. The Examiner had further finally rejected claim 7 under 35 U.S.C. 103(a) as being unpatentable over Menard et al. in view of U.S. Patent 5,787,426 to Koshiba et al. The Examiner had moreover finally rejected claim 8 under 35 U.S.C. 103(a) as being unpatentable over Menard et al. in view of U.S. Patent 6,240,378 to Imanaka et al.

In response to this Office Action, Applicant had amended claim 1. However, as per the Advisory Action mailed February 20, 2002, the changes to claim 1 were not entered as "they raise new

issues that would require further consideration and/or search."

This continuation application re-institutes the changes to claim 1.

The Menard et al. patent discloses a television monitoring system with automatic selection of program material of interest and subsequent display under user control, which includes user-operable selection means for inputting criteria identifying program content of interest to a user. This user-operable selection means may be a LAN-connected PC (col. 5, line 26) where the user might enter a series of keywords representing topics of interest. The system automatically records or alerts a user to watch parts of a video stream wherein an actor speaks one or a series of keywords or those keywords occur within a closed caption text (col. 5, lines 5-19; col. 6, lines 24-38). Menard et al. further discloses to automatically create a profile of keywords out of existing database, spreadsheet or a word processor file (col. 5, lines 61-65).

The subject invention, as claimed in claim 1, comprises: "keyword detection means for detecting, as a detected keyword, at least one item of title fragment information of title information of a television program recorded by the recording means as a processed received television signal, said keyword detection means providing said at least one detected keyword to the selection means as said at least one given keyword." As described in the Substitute Specification on page 5, paragraph [0008], lines 11-22, the keyword

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detection means forms a list of keywords by examining the title(s) of programs that the user has previously recorded. The keyword detection means then provides this list of keywords to the selection means which compares them to title information of television programs, and then selects the appropriate television program(s) whose title information comprises at least one of the keywords. As such, a keyword is (or keywords are) then determined automatically without any operations by the user being required.

In the current Office Action, the Examiner noted that the claims did not specifically recite that the keyword detection means "for automatically generating key word(s)". In response thereto, Claim 1 has been amended to indicate that the keyword detection means detects the keyword(s) and provides the keyword(s) to the selection means for selecting the appropriate television program.

Applicant submits that Menard et al. neither shows or suggests the autonomous generation of keyword(s) by the recording arrangement examining the title(s) of programs recorded by the user. Rather, the system of Menard et al. requires the user to generate the list of keywords and then uses this user-generated list of keywords to select the appropriate programs.

The Koshiba et al. patent discloses data sorting, data sorting tree creating, derivative extracting and thesaurus creating apparatus and method, or data processing system, in which a keyword candidate creator section 12 outputs partial strings of characters

having a number of characters within a predetermined range, e.g., larger than 3 but smaller than 12.

Applicant submits, however, that Koshiba et al. does not supply that which is missing from Menard et al., i.e., keyword detection means for autonomously generating keyword(s), to be used by the selection means, by the recording arrangement examining the title(s) of programs recorded by the user.

The Imanaka et al. patent discloses a weighting method for use in information extraction and abstracting, based on the frequency of occurrence of keywords and similarity calculation, in which exception keywords that cannot be used as keywords are stored in the exception keyword storing section.


However, Applicant submits that, similar to Koshiba et al., Imanaka et al. does not supply that which is missing from Menard et al., i.e., keyword detection means for autonomously generating keyword(s), to be used by the selection means, by the recording arrangement examining the title(s) of programs recorded by the user.

In view of the above, Applicant believes that the subject invention, as claimed, is neither anticipated nor rendered obvious by the prior art, either individually or collectively, and as such, is patentable thereover.



Applicant believes that this application, containing claims 1, 2 and 5-10, is now in condition for allowance and such action is respectfully requested.

Respectfully submitted,

by   
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## APPENDIX

1. (Amended) A recording arrangement ~~(1) having~~comprising:  
\_\_\_\_\_receiving means ~~(14) for receiving a television signal (F)~~  
and an information signal ~~(I) in which television program~~  
information; ~~(FPI) can be transmitted, and having~~

5 \_\_\_\_\_recording means ~~(13) for recording a processed received~~  
television signal of a television program, ~~;~~ and having  
\_\_\_\_\_selection means ~~(58) for selecting at least one television~~  
program ~~whose having~~ title information contained in the television  
program information, said title information comprising (FPI)  
10 ~~contains at least one given keyword,~~

characterized in that said recording arrangement further comprises:

\_\_\_\_\_keyword detection means ~~(54) have been provided for~~  
detecting, as a detected keyword, at least one item of title  
fragment information of title information of a television program  
15 recorded by the recording means ~~(13) as a processed received~~  
television signal, ~~and in that~~ said keyword detection means  
providing said

at least one detected keyword ~~can be used to the selection means~~ as  
a said at least one given keyword ~~by the selection means (58).~~

2. (Amended) A The recording arrangement ~~(1) as claimed in~~  
Claim 1, characterized in that said recording arrangement further  
comprises

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a keyword memory ~~(55)~~ has been provided for storing said at least  
5 one keyword detected by the keyword detection means ~~(54)~~.

5. (Amended) ~~A~~ The recording arrangement (1) as claimed in  
Claim 1, characterized in that said recording arrangement further  
comprises  
a television program memory ~~(39)~~ has been provided, in which for  
5 storing television program information ~~(FPI)~~ derived from a  
received information signal ~~(I)~~ can be stored.

6. (Amended) ~~A~~ The recording arrangement (1) as claimed in  
Claim 1, characterized in that said recording arrangement further  
comprises:  
\_\_\_\_\_ display signal generating means, said display signal  
5 generating means being (60) are adapted to be also activated  
manually so as to generate activatable for generating a display  
signal ~~(A)~~ representing television program information ~~(FPI)~~ of  
selected television programs; and  
\_\_\_\_\_ in that the display signal (A) can be applied output means  
10 for applying the display signal to display means ~~(3)~~ capable of  
displaying a list of recording suggestions containing television  
program information ~~(FPI)~~ of at least one selected television  
program, ; and

in that recording programming means for manually marking

15 the television program information (FPI) of one of the selected and  
displayed television programs, whereby can be marked manually by  
recording programming means (28) and the recording arrangement (1)  
is thereby programmable to record the marked television program  
thus marked.

7. (Amended) A The recording arrangement (1) as claimed in  
Claim 1, characterized in that  
the keyword detection means (54) detect detects as keywords only  
title fragment information having a minimum number of characters as  
5 keywords.

8. (Amended) A The recording arrangement (1) as claimed in  
Claim 1, characterized in that said recording arrangement further  
comprises  
an exclusion memory (57) has been provided, which memory is adapted  
5 to store for storing at least title fragment information which is to  
be excluded as a keyword by the keyword detection means (54).

9. (Amended) A The recording arrangement (1) as claimed in  
Claim 1, characterized in that  
the recording means (13) are adapted to automatically records a  
television program selected by the selection means (58).

10. (Amended) A The recording arrangement ~~(1)~~ as claimed in Claim 1, characterized in that

the receiving means ~~(14) are adapted to receive~~ is capable of receiving an information signal ~~(I)~~ from a computer data network

5 ~~(10)~~.

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